TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-08-02** **Date: 03-05-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Fixing street name boards in Bagalagunte ward no.14 Dasarahalli sub division.

Agency : Sri V.Mohan Kumar 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru.

Customer's Reference : EE/DD/WO/137/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-04-17

Sample ID No : 2017-04-08-02/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	05/04/2017	12/04/2017	148.52 X 150.28 X 150.76	22320	8.154	381.7	17.1	16.8
2	PCC	M20	05/04/2017	12/04/2017	150.27 X 150.52 X 150.22	22619	8.168	373.2	16.5	
3	PCC	M20	05/04/2017	12/04/2017	149.76 X 150.97 X 150.51	22609	8.143	377.6	16.7	

Note:
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Prepared by
Harsitha

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-08-02** **Date: 03-05-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Providing and Fixing street name boards in Bagalagunte ward no.14 Dasarahalli sub division.

Agency : Sri V.Mohan Kumar 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru.

Customer's Reference : EE/DD/WO/137/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-04-17

Sample ID No : 2017-04-08-02/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	05/04/2017	03/05/2017	150.63 X 150.22 X 150.82	22628	8.182	545.3	24.1	23.7
2	PCC	M20	05/04/2017	03/05/2017	150.55 X 150.71 X 149.62	22689	8.043	535.5	23.6	
3	PCC	M20	05/04/2017	03/05/2017	150.82 X 150.18 X 150.71	22650	8.158	527.7	23.3	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-28-03** **Date: 29-03-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Fixing street name boards in Bagalagunte ward no.14 Dasarahalli sub division.
Agency	:	Sri V.Mohan Kumar 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru.
Customer's Reference	:	EE/DD/WO/137/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-2017
Sample ID No	:	2017-02-28-03/01
Sample Type	:	Zuari 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-03-2017 to 29-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.9	–
2	Finess by Air permeablity method (m^2/kg, Min)	288.5	225m^2/kg, Min
3	Density (gm/cc)	3.3	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	280 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-28-03** **Date: 29-03-2017**

Sample ID No : **2017-02-28-03/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	340 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.5N/mm2	Not less than 37 N/mm^2
	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-28-03** **Date: 03-04-2017**

Sample ID No : 2017-03-28-03/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.25	_
2	Specific Gravity	2.55	_
3	Material finer than 75 micron(%)	4.8	Not more than 15 percent

Note:
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Harshitha

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-28-03** **Date: 03-04-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Fixing street name boards in Bagalagunte ward no.14 Dasarahalli sub division.
Agency	:	Sri V.Mohan Kumar 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru.
Customer's Reference	:	EE/DD/WO/137/16-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-03-2017
Sample ID No	:	2017-03-28-03/01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	28-03-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	198	198	3.96	96.0	95-100
3	20 mm	1700	1898	37.96	62.0	30-70
4	10 mm	2019	3917	78.34	21.7	10-35
5	4.75 mm	980	4897	97.94	2.1	0-5
6	Pan	103	5000	100	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-28-03** **Date: 03-04-2017**

Sample ID No : 2017-03-28-03/01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.1	_
2	Elongation Index(%)	10.6	_
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.20	_

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-28-03** **Date: 03-04-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Fixing street name boards in Bagalagunte ward no.14 Dasarahalli sub division.
Agency	:	Sri V.Mohan Kumar 127, Kuvempu Nagara, Jalahalli 2nd stage, Bengaluru.
Customer Reference	:	EE/DD/WO/137/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2017
Sample ID No	:	2017-03-28-03/01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	28-03-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	270	270	5.4	94.6	95-100
3	10 mm	2470	2740	54.8	45.2	25-55
4	4.75 mm	2100	4840	96.8	3.2	0-5
5	Pan	160	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-28-03** **Date: 03-04-2017**

Sample ID No : 2017-03-28-03/01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**10.2**	_
2	Elongation Index(%)	**12.1**	_
3	Specific Gravity	**2.58**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.51**	_
6	Water Absorption(%)	**0.24**	_
7	Ten percent fine value(KN)	**190.5**	_
8	Aggregate crushing Value(%)	**21.6**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**23.2**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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